



284894000.ST25.txt

SEQUENCE LISTING

<110> chiu, Ing-Ming
<120> Transgenic animals for screening therapeutic agents for brain tumors
<130> 28489/04000
<140> 09/990249
<141> 2001-11-21
<150> US 60/252745
<151> 2000-11-22
<160> 3
<170> PatentIn version 3.1
<210> 1
<211> 23
<212> DNA
<213> Homo sapiens
<400> 1
acctgctgtt tccctggcaa ctc
23

<210> 2
<211> 6087
<212> DNA
<213> Artificial Sequence

<220>
<223> Nucleotides 1-594, human FGF1B promoter; 595-3233, SV40; 3234-6087, PGL2-Basic plasmid vector (Promega)

<400> 2
cccgggaggt ccctttcatc cagcagcctt ctgactccag aggagagtct ccgagccacg 60
acctgctgtt tccctggcaa ctcaggcctc aaaataaaca ggattctgct cagacggggc 120
agaagtccat tcggctcaca catttgcccc aagacaaacc acgttaaaat aacacccagg 180
gtagctgctg ccaccgtctt ctgtctctac ctccctcctg gctggccaat ggctctgtgt 240
tcctgggcct gctgctggct gtccagagta ggggttgctt agagctgtgt gcatccctgc 300
gggtggtgtg ggagtgggcg gttgtctaaa ggcagggtccc ctctactgat aaacaaggac 360
cggagataga cctagaggct gacattcttg gctccccag cctacacccc cccacacctg 420
atttcccaca gagccctagg gacgggtagc cagctctgtg gcatggtatc tggaggcagg 480
ccagcaacct gatgtgcatg ccacggcccc tccctctccc cactcagagc tgcagtagcc 540
tggaggttca gagagccggg ctactctgag aagaagacac gatctaagta agctttgcaa 600
agatggataa agtttttaac agagaggaat ctttgagct aatggacctt ctaggctctg 660
aaaggagtgc ctgggggaat attcctctga tgagaaaggc atatttaaaa aaatgcaagg 720
agtttcatcc tgataaagga ggagatgaag aaaaaatgaa gaaaatgaat actctgtaca 780

284894000.ST25.txt

agaaaatgga agatggagta aaatatgctc atcaacctga ctttgaggc ttctgggatg	840
caactgaggt atttgcttct tccttaaate ctggtgttga tgcaatgtac tgcaaacaat	900
ggcctgagtg tgcaaagaaa atgtctgcta actgcatatg cttgctgtgc ttactgagga	960
tgaagcatga aaatagaaaa ttatacagga aagatccact tgtgtgggtt gattgctact	1020
gcttcgattg ctttagaatg tggtttggac ttgatctttg tgaaggaacc ttacttctgt	1080
ggtgtgacat aattggacaa actacctaca gagatttaaa gctctaaggt aaatataaaa	1140
tttttaagtg tataatgtgt taaactactg attctaattg tttgtgtatt ttagattcca	1200
acctatggaa ctgatgaatg ggagcagtg tggaatgcct ttaatgagga aaacctgttt	1260
tgctcagaag aaatgccatc tagtgatgat gaggctactg ctgactctca acattctact	1320
cctccaaaaa agaagagaaa ggtagaagac cccaaggact ttccttcaga attgctaagt	1380
tttttgagtc atgctgtgtt tagtaataga actcttgctt gctttgctat ttacaccaca	1440
aaggaaaaag ctgactgct atacaagaaa attatggaaa aatattctgt aacctttata	1500
agtaggcata acagttataa tcataacata ctgttttttc ttactccaca caggcataga	1560
gtgtctgcta ttaataacta tgctcaaaaa ttgtgtacct ttagcttttt aatttgtaaa	1620
ggggttaata aggaatatatt gatgtatagt gccttgacta gagatccatt ttctgttatt	1680
gaggaaagtt tgccagggtg gttaaaggag catgatttta atccagaaga agcagaggaa	1740
actaaacaag tgtcctggaa gcttgtaaca gagtatgcaa tggaaacaaa atgtgatgat	1800
gtgttgttat tgcttgggat gtacttgtaa tttcagtaca gttttgaaat gtgtttaaaa	1860
tgtattaaaa aagaacagcc cagccactat aagtaccatg aaaagcatta tgcaaatgct	1920
gctatatattg ctgacagcaa aaaccaaaaa accatatgcc aacaggctgt tgatactgtt	1980
ttagctaaaa agcgggttga tagcctacaa ttaactagag aacaaatgtt aacaaacaga	2040
tttaatgata ttttggatag gatggatata atgtttggtt ctacaggctc tgctgacata	2100
gaagaatgga tggctggagt tgcttggtc cactgtttgt tgcccaaat ggattcagtg	2160
gtgtatgact ttttaaaatg catggtgtac aacattccta aaaaaagata ctggctgttt	2220
aaaggaccaa ttgatagtgg taaaactaca ttagcagctg ctttgcttga attatgtggg	2280
gggaaagctt taaatgttaa tttgcccttg gacaggctga actttgagct aggagtagct	2340
attgaccagt ttttagtagt ttttgaggat gtaaagggca ctggagggga gtccagagat	2400
ttgccttcag gtcagggaat taataacctg gacaatttaa gggattattt ggatggcagt	2460
gttaaggtaa acttagaaaa gaaacaccta aataaaagaa ctcaaatatt tccccctgga	2520
atagtcacca tgaatgagta cagtgtgcct aaaacactgc aggccagatt tgtaaaacaa	2580
atagatttta ggcccaaaga ttatttaaag cattgcctgg aacgcagtga gtttttgta	2640
gaaaagagaa taattcaaag tggcattgct ttgcttctta tgtaatttg gtacagacct	2700

284894000.ST25.txt

gtggctgagt ttgctcaaag tattcagagc agaattgtgg agtggaaga gagattggac	2760
aaagagttta gtttgtcagt gtatcaaaaa atgaagttta atgtggctat gggaattgga	2820
gttttagatt ggctaagaaa cagtgatgat gatgatgaag acagccagga aaatgctgat	2880
aaaaatgaag atggtgggga gaagaacatg gaagactcag ggcataaac aggcattgat	2940
tcacagtccc aaggctcatt tcaggccctt cagtcctcac agtctgttca tgatcataat	3000
cagccatacc acattttagt aggttttact tgctttaaaa aacctccac acctcccct	3060
gaacctgaaa cataaaatga atgcaattgt tgttggtaac ttgtttattg cagcttataa	3120
tggttataaa taaagcaata gcatcaciaa tttcaciaat aaagcatttt tttcactgca	3180
ttctagttgt ggtttgtcca aactcatcaa tgtatcttat catgtctgga tccgtcgacc	3240
gatgcccttg agagccttca acccagtcag ctcttccgg tgggcgcggg gcatgactat	3300
cgtcgccgca cttatgactg tcttctttat catgcaactc gtaggacagg tgccggcagc	3360
gctcttccgc ttcctcgctc actgactcgc tgcgctcggc cgttcggctg cggcgagcgg	3420
tatcagctca ctcaaaggcg gtaatacggc tatccacaga atcaggggat aacgcaggaa	3480
agaacatgtg agcaaaaggc cagcaaaagg ccaggaaccg taaaaggcc gcgttgctgg	3540
cgtttttcca taggctccgc cccctgacg agcatcaciaa aaatcgacgc tcaagtcaga	3600
ggtggcgaaa cccgacagga ctataaagat accaggcgtt tccccctgga agctccctcg	3660
tgcgctctcc tgttccgacc ctgccgctta ccggatacct gtccgccttt ctcccttcgg	3720
gaagcgtggc gctttctcaa tgctcacgct gtaggtatct cagttcggcg taggtcgctt	3780
gctccaagct gggctgtgtg cacgaacccc ccgttcagcc cgaccgctgc gccttatccg	3840
gtaactatcg tcttgagctc aaccggtaa gacacgactt atcgccactg gcagcagcca	3900
ctggtaacag gattagcaga gcgaggtatg taggcggctg tacagagttc ttgaagtggc	3960
ggcctaacta cggctacact agaaggacag tatttggtat ctgcgctctg ctgaagccag	4020
ttaccttcgg aaaaagagtt ggtagctctt gatccggcaa acaaacacc gctggtagcg	4080
gtgggttttt tgtttgcaag cagcagatta cgcgagaaa aaaaggatct caagaagatc	4140
ctttgatctt ttctacgggg tctgacgctc agtggaacga aaactcacgt taagggattt	4200
tggtcatgag attatcaaaa aggatcttca cctagatcct tttaaattaa aaatgaagtt	4260
ttaaatcaat ctaaagtata tatgagtaaa cttggtctga cagttaccaa tgcttaatca	4320
gtgaggcacc tatctcagcg atctgtctat ttcgttcac catagttgcc tgactccccg	4380
tcgtgtagat aactacgata cgggagggct taccatctgg cccagtgct gcaatgatac	4440
cgcgagaccc acgctcaccg gctccagatt tatcagcaat aaaccagcca gccggaagg	4500
ccgagcgcag aagtggctct gcaactttat ccgcctccat ccagtcctatt aattgttgcc	4560

284894000.ST25.txt

gggaagctag agtaagtagt tcgccagtta atagtttgcg caacgttggt gccattgcta	4620
caggcatcgt ggtgtcacgc tcgtcgtttg gtatggcttc attcagctcc ggttcccaac	4680
gatcaaggcg agttacatga tccccatgt tgtgcaaaaa agcggttagc tccttcggtc	4740
ctccgatcgt tgtcagaagt aagttggccg cagtgttatc actcatggtt atggcagcac	4800
tgcataattc tcttactgtc atgccatccg taagatgctt ttctgtgact ggtgagtact	4860
caaccaagtc attctgagaa tagtgtatgc ggcgaccgag ttgctcttgc cggcgctcaa	4920
tacgggataa taccgcgcca catagcagaa ctttaaaagt gctcatcatt ggaaaacgtt	4980
cttcggggcg aaaactctca aggatcttac cgctgttgag atccagttcg atgtaacca	5040
ctcgtgcacc caactgatct tcagcatctt ttactttcac cagcgtttct gggtgagcaa	5100
aaacaggaag gcaaaatgcc gcaaaaaagg gaataagggc gacacggaaa tgttgaatac	5160
tcatactctt cttttttcaa tattattgaa gcatttatca gggttattgt ctcatgagcg	5220
gatacatatt tgaatgtatt tagaaaaata aacaaatagg ggttccgcgc acatttcccc	5280
gaaaagtgcc acctgacgcg ccctgtagcg gcgcattaag cgcggcgggt gtggtggtta	5340
cgcgacgcgt gaccgctaca cttgccagcg ccctagcgcc cgctcctttc gctttcttcc	5400
cttcctttct cgccacgttc gccggctttc cccgtcaagc tctaaatcgg gggctccctt	5460
tagggttccg atttagtgt ttacggcacc tcgaccccaa aaaacttgat tagggtgatg	5520
gttcacgtag tgggccatcg ccctgataga cggtttttcg ccctttgacg ttggagtcca	5580
cgttctttta tagtggactc ttgttccaaa ctggaacaac actcaaccct atctcggtct	5640
attcttttga ttataaggg attttgccga tttcggccta ttggttaaaa aatgagctga	5700
tttaacaaaa atttaacgcg aattttaaca aaatattaac gtttacaatt tcccattcgc	5760
cattcaggct gcgcaactgt tgggaagggc gatcggtagc ggcctcttcg ctattacgcc	5820
agcccaagct accatgataa gtaagtaata ttaaggtagc tggaggtttt acttgcttta	5880
aaaaacctcc cacacctccc cctgaacctg aaacataaaa tgaatgcaat tgttggtgtt	5940
aacttgttta ttgcagctta taatggttac aaataaagca atagcatcac aaatttcaca	6000
aataaagcat ttttttact gcattctagt tgtggtttgt ccaaactcat caatgtatct	6060
tatggtactg taactgagct aacataa	6087

<210> 3
 <211> 1330
 <212> DNA
 <213> Mus musculus

<400> 3
 ggagagagac ctcaggtaga ctcccagttc ccctagggtcc acgtgcctca tctctatctg 60
 aactatcagg tgggcaggct ggaccacacc accgcacaca cacacgcaca cgcacacgca 120

284894000.ST25.txt

cacacacaca cacacacaca cacacgctcg tcgctcgctc actcatgcct gacccaggct	180
gaaacgcctg tggaagggag tcctctttcac caacgatcgg aaacaactaa tcatggtttc	240
agttgcttgc tttgatccat accgcctgag tccacttcat tccctaccat aagccagact	300
tatttgttca gatggcagcc ttccccctct gtggttaagaa gatgggcatg cagggccgac	360
tgaggaggtc ccaggctcac ctgcggtactc tcctagtcta gcagggatgg gtggcctatg	420
gtgcagaatg ctggggacct ccctctgccg tccctcccta gctctaacca ggtgggtcact	480
accttgcccta gctctgtaga acacacttgg tagggcttgg ctctgggaat ggtgtagatg	540
catagacaga cactgccaca cacagacacc tacaccctgc atggggacag atgacagaac	600
agagaagggc tcccttttac cagcagtgtg attttagagg agtgtctttc aacacaacca	660
gttgtttccc tggtaacaga gaggcctcaa aataaacagg actctgctca gacattagtc	720
cactgggctc agacttctgc cccaagacaa accgtgctaa aataacaccc aaggtagttg	780
ctgcccctgt ctgcctctct gcagtcccag gtctgctgca gactgtgaag agctagaggc	840
acttaagagt ttgttgtaga ctgatgtggt aggggtggggc tgtggggtgg tctgcaggca	900
ggggagggga gcccctctgc tgatgagcaa gggccaaggg cagacctgga ggccagcgct	960
ctctgctccc tgcacccgcc tccctgcttc ccacacagcc tctggactgg catggtgtct	1020
ggaggcgggc cagcaacctg atgtgcatgc cacagcccgt ccctctcccc acacagagct	1080
gcagaaatcc tgaggctcag agagcgctgg agaggcagct tcagcccagg caccctgtga	1140
cagcgcaaag gctgcccagc ggacttcatt cccgtcttgt gataaagtgg agtgaagaga	1200
gccccccagc ctgccagttc ttcaggttaag aattaggggt gtgttcattc tatcccagc	1260
tggatttggc tgtttgtaca aagctagtag gaaggaaga gaagaggaac ctgtaaggta	1320
gagaagtgtt	1330